



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/805,449	03/13/2001	Fu-Tong Liu	051501/027 8726	9750	
7590 09/08/2004			EXAMINER		
Pillsbury Winthrop LLP			LANDSMAN, ROBERT S		
Intellectual Pro		ART UNIT	PAPER NUMBER		
50 Fremont Str			- FAFER NUMBER		
San Francisco,	CA 94105-2228	1647			
			DATE MAILED: 09/08/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	No.	Applicant(s)				
Office Action Summary		09/805,449		LIU ET AL.				
		Examiner		Art Unit				
		Robert Land	ì	1647	1			
	The MAILING DATE of this communic	cation appears on the co	over sheet with the c	orrespondence a	ddress			
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC nsions of time may be available under the provisions o SIX (6) MONTHS from the mailing date of this commu e period for reply specified above is less than thirty (30) period for reply is specified above, the maximum stati re to reply within the set or extended period for reply reply received by the Office later than three months aft ed patent term adjustment. See 37 CFR 1.704(b).	CATION. f 37 CFR 1.136(a). In no event, inication. I days, a reply within the statutory utory period will apply and will exist, by statute, cause the applicat	however, may a reply be tim y minimum of thirty (30) days pire SIX (6) MONTHS from ion to become ABANDONEI	nely filed s will be considered tim the mailing date of this D (35 U.S.C. § 133).	ely. communication.			
Status								
1)[\]	Responsive to communication(s) filed	I on 23 July 2004						
	•	b)⊠ This action is non-	-final					
3)	·	/		secution as to th	e merits is			
٥,١	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disnositi	on of Claims							
		as in the application			4.3			
5)□ 6)⊠ 7)□	Claim(s) 1-12 and 14-47 is/are pendir 4a) Of the above claim(s) 14-35 is/are Claim(s) is/are allowed. Claim(s) 1-12 and 36-47 is/are rejected Claim(s) is/are objected to. Claim(s) are subject to restriction	withdrawn from consided.						
Applicati	on Papers							
10)	The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including the oath or declaration is objected to	a) accepted or b) loned ion to the drawing(s) be how the correction is required in	eld in abeyance. See f the drawing(s) is obj	: 37 CFR 1.85(a). ected to. See 37 C				
Priority u	ınder 35 U.S.C. § 119							
a)[Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority d 2. Certified copies of the priority d 3. Copies of the certified copies of application from the Internation see the attached detailed Office action	ocuments have been re ocuments have been re f the priority documents al Bureau (PCT Rule 1	eceived. eceived in Applications have been receive 7.2(a)).	on No d in this Nationa	l Stage			
Attachmen	t(s)							
	e of References Cited (PTO-892)	4)	Interview Summary					
3) 🔲 Inform	e of Draftsperson's Patent Drawing Review (PTo nation Disclosure Statement(s) (PTO-1449 or P r No(s)/Mail Date		Paper No(s)/Mail Da Notice of Informal Pa Other:		O-152)			

Application/Control Number: 09/805,449

Art Unit: 1647

DETAILED ACTION

1. Formal Matters

- A. The Amendment dated 7/23/04 has been entered into the record.
- B. Claims 1-47 were pending in the application. Claim 13 has been canceled and claims 14-35 have been withdrawn as being drawn to a non-elected invention. Therefore, claims 1-12 and 36-47 are the subject of this Office Action.
- C. All Statutes under 35 USC not found in this Office Action can be found, cited in full, in a previous Office Action.

2. Claim Rejections - 35 USC § 112, first paragraph - written description

- A. The rejection of claims 1-12 and 36-47 under 35 USC 112, first paragraph, has been withdrawn in view of Applicants' arguments and further consideration by the Examiner of the structure of galectin-3. While galectin-3 is 332 residues, various studies, as argued by Applicants, have shown that the ligand binding domain as well as other domains of galectin-3 are known in the art. Therefore, given this guidance and the fact that "fragments" and "subsequences" of galectin-3, as well as antibodies which bind the receptor, comprises a relatively small genus, the Examiner has concluded that galectin-3, its fragments and subsequences as well as its antibodies are adequately described.
- B. The rejection of claims 1-12 and 36-47 under 35 USC 112, first paragraph, has been withdrawn in view of Applicants' arguments and further consideration by the Examiner of the structure of galectin-3. The rationale used by the Examiner is identical to that of paragraph A in this section.

3. Claim Rejections - 35 USC § 112, first paragraph - scope of enablement

A. The rejection of claims 5, 6 and 40 under 35 USC 112, first paragraph, has been withdrawn in view of Applicants' arguments and further consideration by the Examiner of the structure of galectin-3. The rationale used by the Examiner is identical to that of paragraph A under 35 USC 112, first paragraph, regarding written description.

Application/Control Number: 09/805,449

Art Unit: 1647

B. The rejection of claims 1-12 and 36-47 under 35 USC 112, first paragraph, has been withdrawn in view of the fact that Applicants have provided sufficient guidance and working examples of cells which are encompassed by the claims, such as macrophages, neutrophils and eosinophils as well as monocytes. Furthermore, the types of cells which comprise galectin-3 receptors and which can migrate is sufficiently

small.

C. Claims 8-13 and 43-47 remain rejected under 35 USC 112, first paragraph, for the reasons already of record on pages 6-7 of the Office Action mailed 1/21/04. Applicants argue that the claims are not drawn to treating these conditions. While Applicants are correct, it is still unclear how Applicants would be able to maintain a sufficient concentration of galectin-3 at the desired site. It would appear that galectin-3 would diffuse from the intended since. Therefore, any diffusion of galectin-3 would cause the

migrating cells to migrate, potentially, away from the site of interest.

4. Claim Rejections - 35 USC § 112, second paragraph

A. Claims 1-12 and 36-47 remain rejected under 35 USC 112, second paragraph, for the reaons already of record on page 7 of the Office Action mailed 1/21/04. Applicants have not addressed this argument. Claim 1, for example, is circular. It states a method of modulating migration of a cell by administering a 'modulating amount' of a galectin. Applicants may want to consider such language as, for example, "wherein migration is either increased or decreased (or stimulated or inhibited) depending on the dose of galectin-3," or provide arguments to this rejection.

B. Claims 6 and 41 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 6 is confusing since it is not clear how galectin-3 can comprise a "fragment" of itself. The claim could be more clear if it was reworded to recite "comprising a fragment of galectin-3," or "wherein the method uses a fragment of galectin-3." Claim 41 should be amended in a similar fashion.

5. Conclusion

A. No claim is allowable.

Art Unit: 1647

Advisory information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Landsman whose telephone number is (571) 272-0888. The examiner can normally be reached on Monday - Friday from 8:00 AM to 5:00 PM (Eastern time) and alternate Fridays from 8:00 AM to 5:00 PM (Eastern time).

If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Brenda Brumback, can be reached on (571) 272-0961.

Official papers filed by fax should be directed to (703) 872-9306. Fax draft or informal communications with the examiner should be directed to (571) 273-0888.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-0700.

Robert Landsman, Ph.D. Patent Examiner Group 1600 August 30, 2004

PATENT EXAMINER